TRANSPORT DEMULTIPLEXOR WITH BIT MASKABLE FILTER

ABSTRACT OF THE DISCLOSURE

The preferred embodiment of the present invention provides an improved transport demultiplexor that can receive and filter different data types before sending the data to system memory. The preferred embodiment provides a string comparator to facilitate real time filtering of continuous incoming data before loading the data into system memory. The string comparator preferably uses a bit-maskable matching filter that filters system data in real time as the data is being delivered to system memory. When data matching the filter is located, the destination address of that data is determined and delivered to the processor. This allows the processor to quickly locate the desired data and thus facilitates the real time processing of that data.